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(54) SELECTIVE DETECTION/PROTECTION OF
FEEDER LINE FAULT IN GTO THYRISTOR
CIRCUIT BREAKER

(57) Abstract:

PURPOSE: To protect a GTO thyristor safely by setting the upper limit of selective detection/protection characteristics such that the interrupting current does not exceed over the maximum controllable current of the GTO thyristor.

CONSTITUTION: Protective operation starts when the instantaneous value (i) and the variation rate di/dt of current reach to fault interruption zone. Current interruption characteristic is shown by 12 along a selective

fault current is not interrupted in the zone above the line 15, the GTO thyristor is protected from breakdown. The lower limit of the selective protection characteristics is set below the line 15.

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